



TOP SECRET

IMAGERY
ANALYSIS
DIVISION

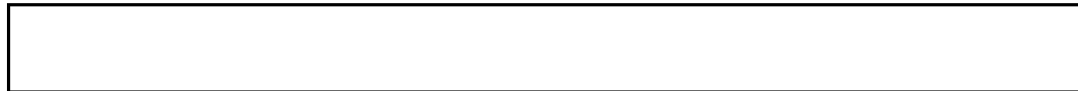
PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

HUAI-NAN NITROGEN FERTILIZER PLANT

HUAI-NAN, CHINA

Declass Review by NIMA/DOD



25X

CIA/PIR 65081

DATE FEB. 66

COPY 90

PAGES 10

25X

GROUP 1
Excluded from automatic
downgrading and declassification

TOP SECRET

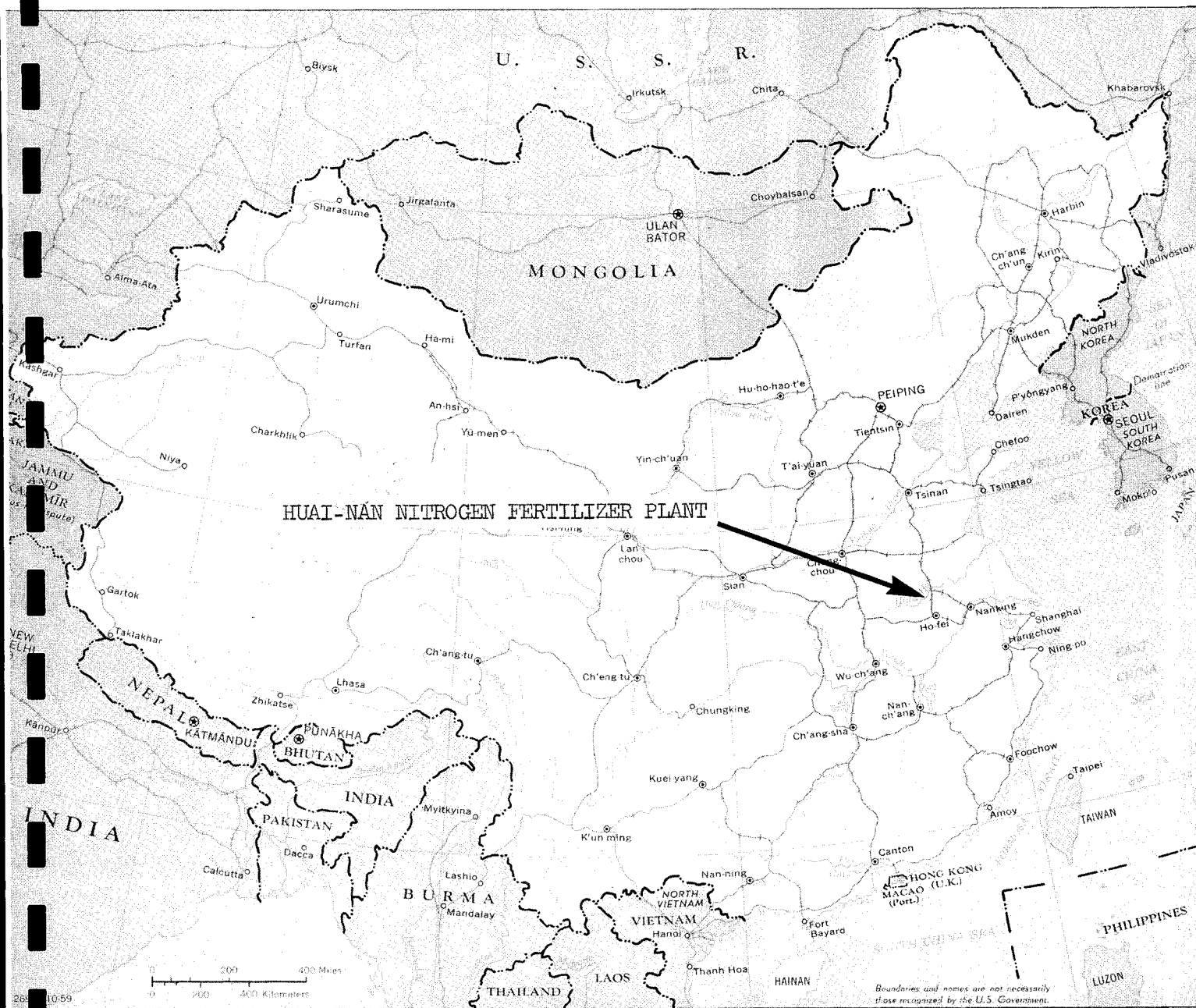
25X1

Approved For Release 2004/05/05 : CIA-RDP78T05161A000600010023-8

Approved For Release 2004/05/05 : CIA-RDP78T05161A000600010023-8

TOP SECRET

PIR - 65081
FIGURE 1



PREPARED BY - CHEMICAL AND SCIENTIFIC SECTION
INDUSTRIAL BRANCH, IAD

TOP SECRET

25X5

Approved For Release 2004/05/05 : CIA-RDP78T05161A000600010023-8

Approved For Release 2004/05/05 : CIA-RDP78T05161A000600010023-8

~~TOP SECRET~~

PIR - 65081

CIA IMAGERY ANALYSIS DIVISION

HUAI-NAN NITROGEN FERTILIZER PLANT
HUAI-NAN, CHINA

The Huai-nan Nitrogen Fertilizer Plant is located at approximate geographic coordinates 32 40N - 116 57E and is 3 nm southwest of the city of Huai-nan in Anhwei Province, China (Figures 1 and 2). It is also 10 nm east-northeast of Shou-hsien and 1.5 nm south of the Huai-Ho (river).

According to an open source report (1, Documents), this plant was scheduled to begin production of ammonium sulfate using locally available coal and sulfide ores as raw materials in 1960. The most recent photographic coverage of [] indicates, however, that the plant was in a mid-stage of construction (Figure 7) and that the plant may eventually be capable of ammonium nitrate production. In [] the gas plant and ammonia synthesis area appeared essentially complete. A possible nitric acid area was under construction as were a number of warehouses, shops, and tanks in various areas of the plant. A rail spur into the plant area appeared incomplete.

At this stage of construction, the plant can be subdivided into four major areas, annotated by letter on Figure 5: (a) gas plant for producing hydrogen and nitrogen, (b) ammonia synthesis section, (c) possible nitric acid area under construction, (d) construction area. In addition, some of the specific facilities within these four areas have been identified by number on Figure 5:

- (1) Coal processing building
- (2) Boilerhouse
- (3) Retort building and gas ovens
- (4) Two gasholders under construction
- (5) Ammonia synthesis building
- (6) Tower for waste gases, erected since []

Areas of construction since []

- (7) Possible nitric acid building
- (8)-(11) Buildings completed or constructed between []

See Figure 7, a more recent photo of this plant, for comparative purposes.

~~TOP SECRET~~

TOP SECRET

PIR - 65081

CIA IMAGERY ANALYSIS DIVISION

Area E is an unidentified plant one nm south-southwest of the fertilizer plant. It is road and rail served and consists of a bulk material unloading area, several conveyors, several free standing stacks, at least eight tanks, and associated buildings. This plant may be related to the fertilizer plant.

There is a great degree of similarity between the Huai-nan Nitrogen Fertilizer Plant and the Kuang-chou Chemical Fertilizer Plant at geographic coordinates 23 08N - 113 23E (Figures 5 and 6). The layout and building configuration of the facilities for production of hydrogen and nitrogen and ammonia synthesis are practically identical at these two plants. The possible nitric acid area at Huai-nan is in the same relative plant location as the sulfuric acid area at Kuang-chou. However, the two areas are quite dissimilar. A more detailed description of the Kuang-chou plant is given in CIA/PIR 65051.

X1 Construction of the Huai-nan Nitrogen Fertilizer Plant has progressed slowly during the period [redacted] On the photography [redacted] (Figure 3), the boilerhouse and retort building (annotations 2 and 3, Figure 5) appeared complete as did the ammonia synthesis building (Annotation 5, Figure 5). The coal processing building and one gasholder (Annotations 1 and 4, Figure 5) were under construction. No major changes occurred between [redacted] however, the coal processing building and a conveyor connecting it to the boilerhouse appeared complete; construction of a second gasholder and a possible nitric acid area had begun (Figure 5). On the latest available coverage of [redacted] the possible nitric acid building (Annotation 7, Figure 5) is in a mid-stage of construction. In addition, a number of buildings have been completed or constructed between [redacted] (Annotations 8-10, Figure 5).

X1

25X

25X

TOP SECRET

TOP SECRET

PIR - 65051

CIA IMAGERY ANALYSIS DIVISION

REFERENCES

MAPS OR CHARTS

1. General Locator Map, China - 29606 (UNCLASSIFIED)
2. U.S. Air Target Chart, Series 200, Sheet 0386-21A, 1st Edition
November 1959 (SECRET [REDACTED])

DOCUMENTS

1. Jen-min Jih-pao, Peiping, 16 April 1958, Page 5 (UNCLASSIFIED)
2. CIA/PIR - 65051, Kuang-chou Chemical Fertilizer Plant, Kuang-chou, China, November 1965 (SECRET [REDACTED])

REQUIREMENT

CIA. C-RR5-83,036

PROJECT

30432-6

TOP SECRET

Approved For Release 2004/05/05 : CIA-RDP78T05161A000600010023-8

TOP SECRET

PIR - 65081
FIGURE 3

HUAI-NAN NITROGEN FERTILIZER PLANT
Huai-nan, China
32 40N - 116 57E

TOP SECRET

Approved For Release 2004/05/05 : CIA-RDP78T05161A000600010023-8

Approved For Release 2004/05/06 : CIA-RDP78T05161A000600010023-8

TOP SECRET

PIR - 85001
FIGURE 4

HUAI-NAN NITROGEN FERTILIZER PLANT
Huai-nan, China
32 40N - 116 57E

TOP SECRET

Approved For Release 2004/05/06 : CIA-RDP78T05161A000600010023-8

TOP SECRET

PIR - 65081
FIGURE 5

25X



HUAI-NAN NITROGEN FERTILIZER PLANT
Huai-nan, China
32 40N - 116 57E

X1
X1

TOP SECRET

TOP SECRET

PIR - 65081
FIGURE 6



KUANG-CHOU CHEMICAL FERTILIZER PLANT
Kuang-chou, China
23 08N - 113 23E

TOP SECRET

TOP SECRET

PIR - 65081
FIGURE 7

25X
25X

HUAI-NAN NITROGEN FERTILIZER PLANT

Huai-nan, China
32 40N - 116 57E

TOP SECRET

X1
X1

25X

TOP SECRET

TOP SECRET